Circuit			Direction		DB-25	DB-9
Name	**Typical purpose**	**Desc.**	**DTE**	**DCE**		
Data Terminal Ready	DTE is ready to receive, initiate, or continue a call.	DTR	out	in	20	4
Data Carrier Detect	DCE is receiving a carrier from a remote DCE.	DCD	in	out	8	1
Data Set Ready	DCE is ready to receive and send data.	DSR	in	out	6	6
Ring Indicator	DCE has detected an incoming ring signal on the telephone line.	RI	in	out	22	9
Request To Send	DTE requests the DCE prepare to transmit data.	RTS	out	in	4	7
Clear To Send	DCE is ready to accept data from the DTE.	CTS	in	out	5	8
Transmitted Data	Carries data from DTE to DCE.	TxD	out	in	2	3
Received Data	Carries data from DCE to DTE.	RxD	in	out	3	2
Common Ground	Zero voltage reference for all of the above.	GND	common		7	5
Protective Ground	Connected to chassis ground.	PG	common		1	**shell

Null modem adapter pinout					Directions
Desc.	***DB-9 (1)**	**DB-25 (1)**	**DB-25 (2)**	***DB-9(2)**	**To build a null modem adapter pick the size and gender of connector required for cable end (1) and reference pin numbers in that column. Do the same for cable end (2).** **Example: DB-9 (1) Pin 7 is wired to DB25 (2) Pin 5.** **NOTE: Referencing pin numbers prevents confusion caused by manufacturers inconstantly using connector genders.**
FGND	**shell	1	1	**shell	
TxD	3	2	3	2	
RxD	2	3	2	3	
RTS	7	4	5	8	
CTS	8	5	4	7	
DSR+DCD	1+6	6 + 8	20	4	
SGND	5	7	7	5	
DTR	4	20	6+8	1+6	
DCE	9	22	22	9	

***Technically the proper name for this connector is DE-9. The 2nd letter denotes the physical size. It has commonly become known as DB-9.**

****shell: The DB-9 pinout does not use Pin 1 from the DB25, but the shell can be used as frame ground**

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